EXR-200

SERVICE MANUAL

US Model
Canadian Model

Model Name Using Similar Mechanism	XR-2390
Tape Transport Mechanism Type	MG-36SHJ-32

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION
10 watts per channel minimum continuous average power into 4 ohms, both channels driven from 30 Hz to 20 kHz with no more than 1% total harmonic distortion.

Other Specifications

Cassette player section

Tape track	4-track 2-channel stereo
Frequency response	40 – 15,000 Hz
Signal-to-noise ratio	55 dB with TYPE I cassettes
Wow and flutter	0.13 % (WRMS)

Tuner section

FM

Tuning range	87.5 – 107.9 MHz
Antenna terminal	External antenna connector/ Power antenna relay control lead
Intermediate frequency	10.7 MHz
Usable sensitivity	13 dBf (75 ohms)
Selectivity	70 dB at 400 kHz
Signal-to-noise ratio	65 dB (stereo), 68 dB (mono)
Harmonic distortion at 1 kHz	0.9% (stereo), 0.5% (mono)
Separation	33 dB at 1 kHz
Frequency response	30 – 15,000 Hz
Capture ratio	2 dB

AM

Tuning range	530 – 1,710 kHz
Antenna terminal	External antenna connector/ Power antenna relay control lead
Intermediate frequency	450 kHz
Sensitivity	32 µV

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	3.2 – 8 ohms
Maximum power output	20 W × 2 (at 4 ohms) 6 W × 4 (at 4 ohms)

General

Power requirements	12 V DC car battery (negative ground)
Mounting dimensions	Approx. 178 × 50 × 135 mm (w/h/d) (7 1/8 × 2 × 5 3/8 in.)
Mass	Approx. 1.2 kg (2 lb. 10 oz.)
Accessories supplied	Mounting hardware (1 set) Power connecting cord (1)

Design and specifications subject to change without notice.

FM/AM CASSETTE CAR STEREO

SONY®

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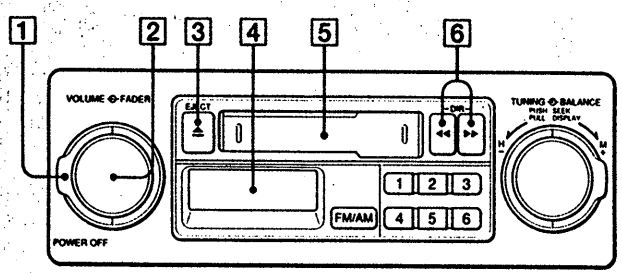
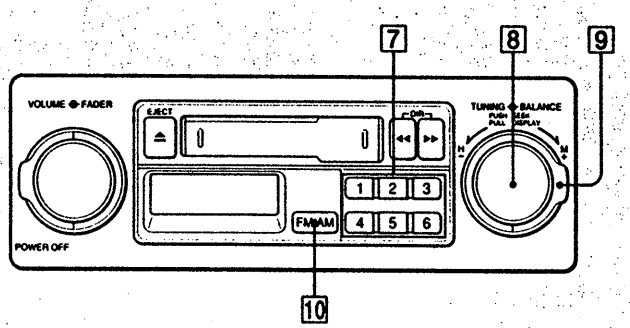
Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Location and Function of Controls





1 FADER control
Turn clockwise to decrease the volume of the rear speakers or counterclockwise to decrease the volume of the front speakers.

2 POWER OFF (power on/off) switch/VOLUME

POWER OFF switch	Turn clockwise to turn on the unit and counterclockwise to turn off.
VOLUME control	Turn clockwise to increase volume and counterclockwise to decrease.

3 EJECT button
Press to stop the tape and take out the cassette.

4 Display window

5 Cassette insertion door

6 ◀◀/▶▶ (fast winding)/DIR (tape transport direction change) buttons
During playback, press ◀◀ or ▶▶ for fast winding, or press both ◀◀ and ▶▶ simultaneously to listen to the other side of the cassette.

To Wind the Tape Rapidly

Direction indicator	To advance	To rewind
►	Press ▶▶.	Press ◀◀.
◄	Press ◀◀.	Press ▶▶.

To resume playback, press ◀◀ or ▶▶ (that one which is not depressed) lightly.

7 Preset number buttons

8 TUNING/PUSH SEEK/PULL DISPLAY knob Use this knob also for clock setting.

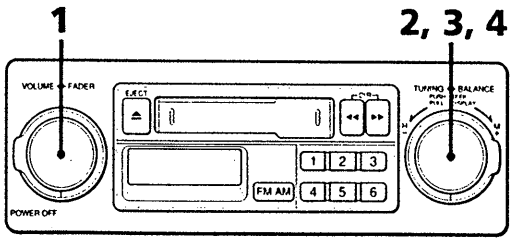
TUNING knob	Turn to normally tune in the desired station.
PUSH SEEK knob	Press for automatic tuning.
PULL DISPLAY knob	Pull to display the time indication during radio reception.

9 BALANCE control
Turn to adjust the balance of the left and right speakers.

10 FM/AM (band select) button
Each time you press the button, the band changes as follows:
→ FM1 → FM2 → AM →

This section is extracted from instruction manual.

Setting the Clock

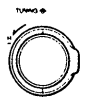


The clock has a 12-hour digital indication.

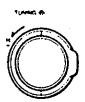
For example, to set it to 10:08.

1 **Turn clockwise to turn the power on.**

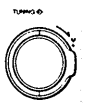
2 **Pull out the DISPLAY knob to display the time digits.**



3 **Turn to " H " while pulling out the TUNING knob.**
Set the hour digits.



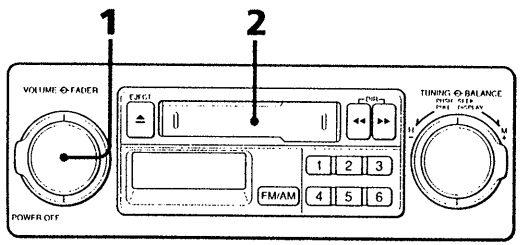
4 **Turn to " M " while pulling out the TUNING knob.**
Set the minute digits.



The digits will advance in sequence. To advance them rapidly, keep the TUNING knob turned while pulling it out.

When you set minute digits
"00" comes after "59". Setting the hour digits will not affect the minute digits.

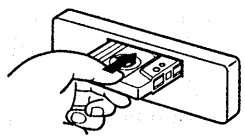
Listening to the Tape Playback



Before inserting a cassette, take up any slack in the tape with a thick pencil.

1 **Turn clockwise to turn the power on.**

2 **Insert a cassette.**
Playback starts automatically.

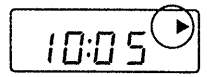


To listen to the reverse side of the cassette,

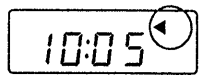
press ◀◀ ▶▶ **simultaneously.**

Note
Before turning off the unit; eject the tape to avoid tape damage.

Tape transport direction indication.



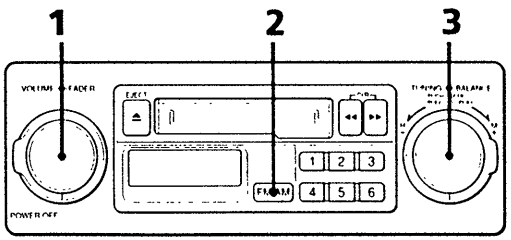
The side facing up is being played back.



The side facing down is being played back.

To stop the tape playback and listen to the radio
Press the EJECT button. The unit enters the radio mode.

Automatic Tuning



Searching for the Stations Automatically

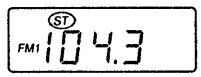
1 **Turn clockwise to turn the power on.**

2 **Press to select the desired band, FM1, FM2, or AM.**

FM/AM

3 **Press the PUSH SEEK button.**
Stations will be scanned automatically and scanning will stop when a station is tuned in. Repeat pressing the PUSH SEEK button until the desired station is tuned in.

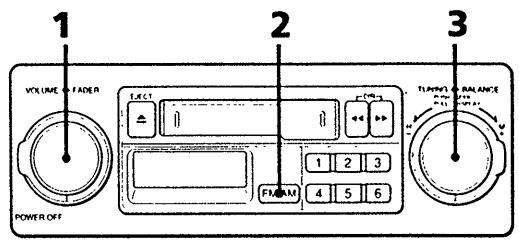
When an FM stereo program with a sufficient signal strength is tuned in



The "ST" indication appears.

To play back a cassette during radio reception
Insert a cassette. The radio will be turned off and playback will start automatically.

Manual Tuning



Tuning in by Adjusting the Frequency

1 **Turn clockwise to turn the power on.**

2 **Press to select the desired band, FM1, FM2, or AM.**

FM/AM

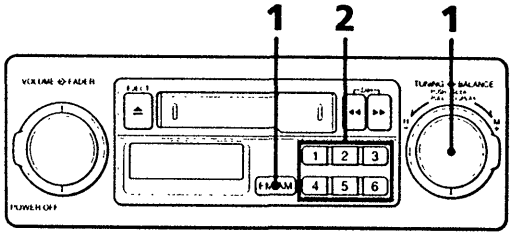
3 **Turn to tune in the desired station.**

For lower frequency **For higher frequency**

PREVENTING ACCIDENTS!

While you are driving, the use of Automatic Tuning and the Memory Preset Tuning is recommended instead of the Manual Tuning.

Using the Memory Preset Tuning



You can memorize a total of 18 stations (6 stations for each band), one on each preset number button in any order.

Memorizing Only the Desired Stations

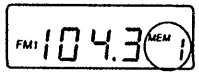
For example, store a station on the preset number button 1.

1 **Tune in a desired station** using automatic or manual tuning.

FM/AM

2 **Keep the preset number button pressed for about two seconds until the "MEM" indication comes on in the display window.**

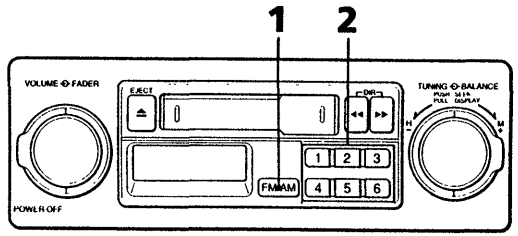
1 — 6



Repeat the same procedure to store other stations.

Only one station per band (FM1, FM2, and AM) can be stored in the memory on each preset number button.
If you try to store another station on the same preset number button, the previously stored station will be erased.

When the "MEM" indication comes on, the station is stored in the memory and the operation is completed. The "MEM" indication goes off after a while.



Receiving the Memorized Stations

1 **Select the desired band.**

FM/AM

2 **Press the desired preset number button lightly.**

1 — 6

Note
If you keep pressing the preset number button for more than two seconds, the currently received station will be memorized again. To receive the previously memorized station, make sure that the preset number button is pressed only lightly.

Connections/Connexions

Cautions

- This unit is designed for negative ground 12 V DC operation only.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the **yellow** and **red** power input leads only after all other leads have been connected
- Be sure to connect the red power input lead to the positive 12 V power terminal which is energized when the ignition key is in the accessory position
- **Run all ground wires to a common ground point.**

Attention

- Cet appareil est conçu pour fonctionner sur courant continu de 12 V avec masse négative.
- Avant d'effectuer les raccordements, débranchez la borne de terre de la batterie du véhicule pour éviter tout court-circuit.
- Raccordez les fils **jaune** et **rouge** d'alimentation uniquement après avoir réalisé toutes les autres connexions
- Raccordez le fil d'alimentation rouge à la borne positive de 12 V qui est alimentée quand la clé de contact est sur la position accessoires
- **Rassemblez tous les fils de terre en un point de masse commun.**

Speaker Connection

Notes on speaker connection

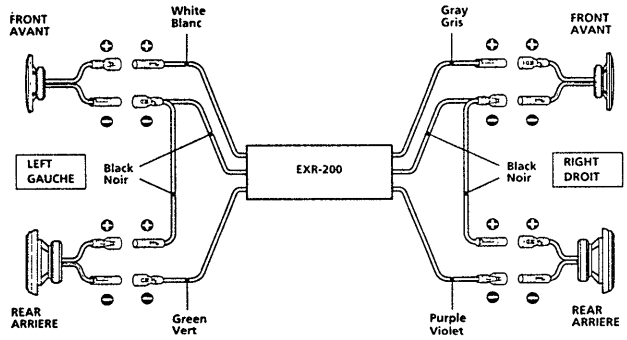
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.
- Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.
- Do not attempt to connect the speakers in parallel.

Connexion des haut-parleurs

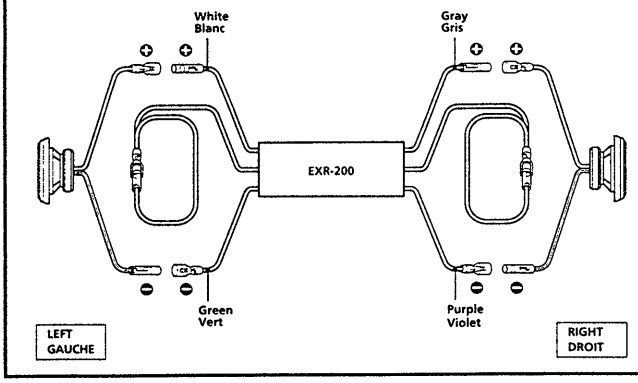
Remarques sur la connexion des haut-parleurs

- Utiliser des haut-parleurs avec une impédance de 4 à 8 ohms et qui peuvent supporter l'alimentation fournie sinon ils risquent d'être endommagés
- Ne pas connecter les bornes du système de haut-parleur au châssis de la voiture et ne pas raccorder les bornes du haut-parleur droit aux bornes du haut-parleur gauche.
- Ne pas essayer de connecter les haut-parleurs en parallèle.

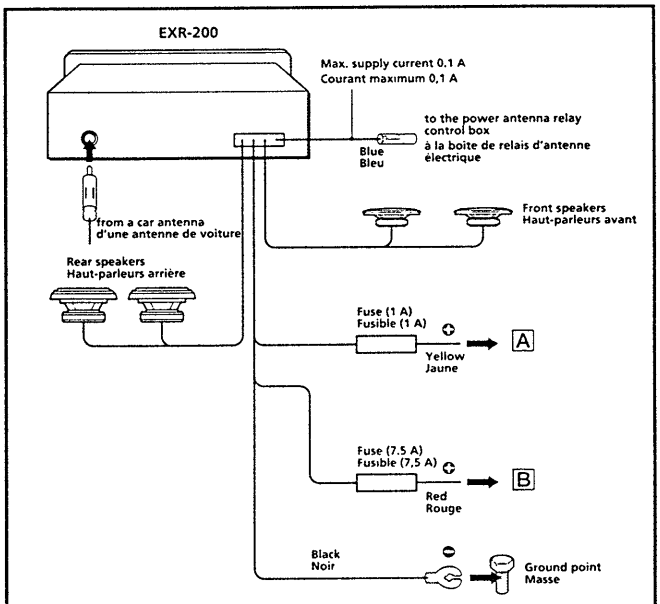
4-speaker connection
Connexions de 4 haut-parleurs



2-speaker connection
Connexions de 2 haut-parleurs



Connection Diagram — Schéma de connexion



Destination

A To the +12 V terminal which is energized at all times
B To the +12 V power terminal which is energized with the ignition key in the accessory position

Cord color

Red	Power input lead
Yellow	Power input lead
Blue	Power antenna relay control lead
Black	Ground wire

A raccorder

A A la borne d'alimentation 12 volts positive qui est continuellement énergétisée
B A la borne d'alimentation 12 volts positive qui est énergétisée lorsque la clé de contact est sur la position accessoires

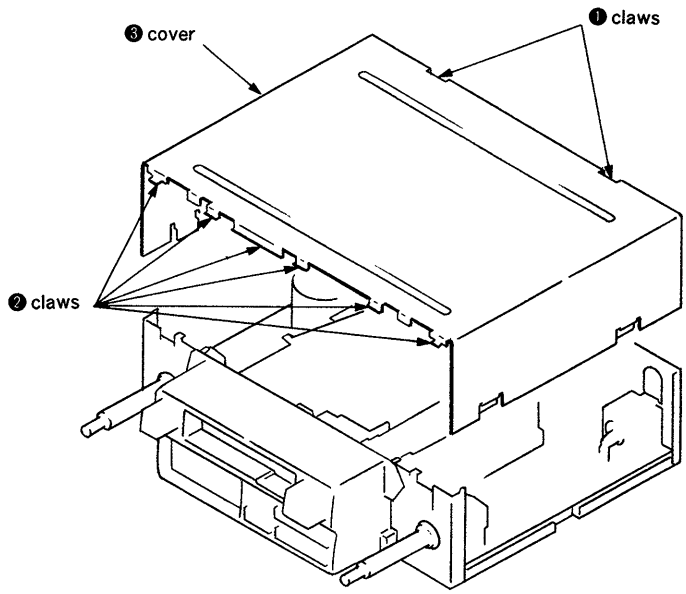
Couleur des fil

Rouge	Fil d'entrée d'alimentation
Jaune	Fil d'entrée d'alimentation
Bleu	Fil de contrôle de relais d'antenne électrique
Noir	Fil de masse

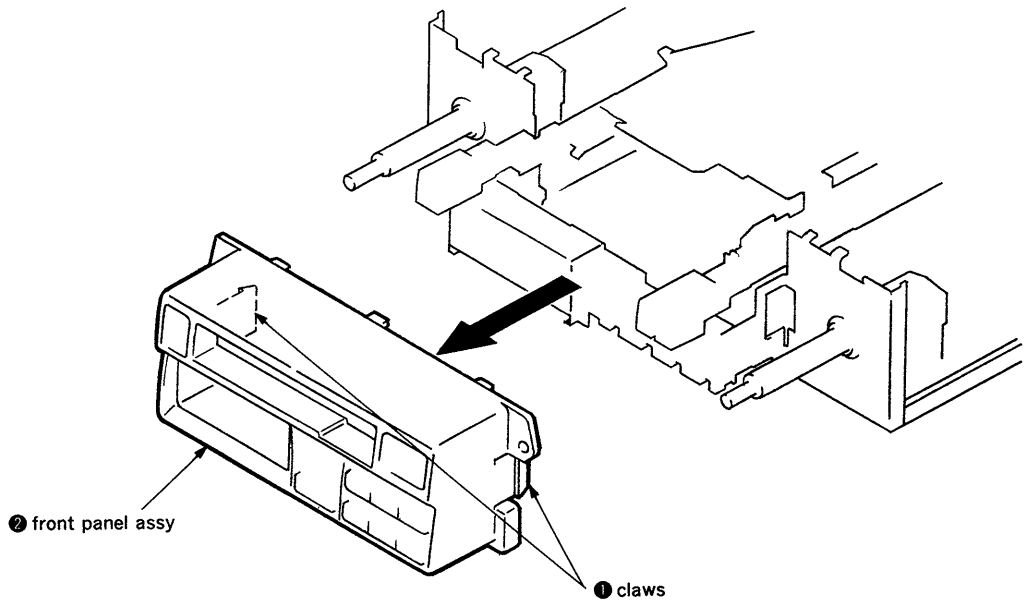
SECTION 2
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

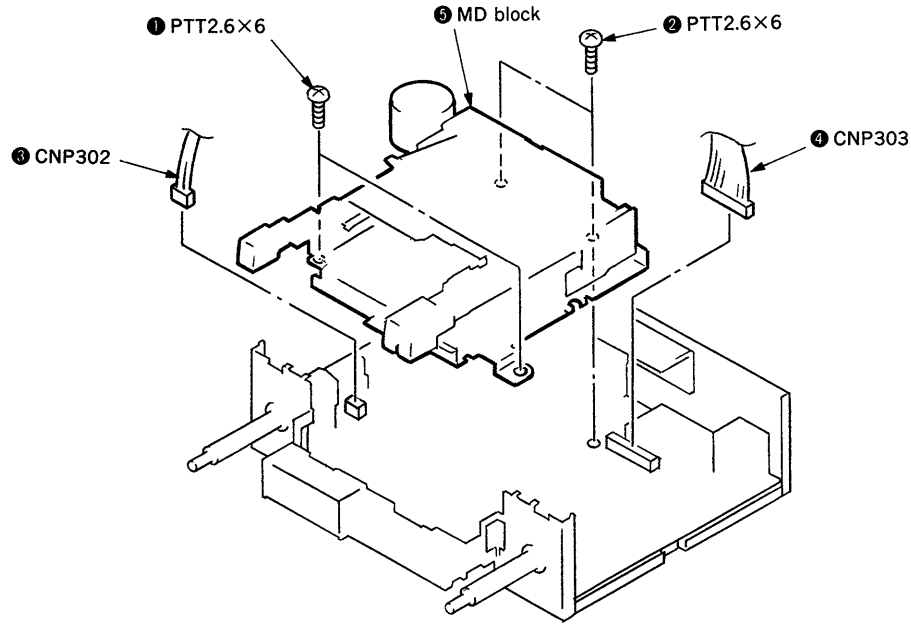
2-1. COVER



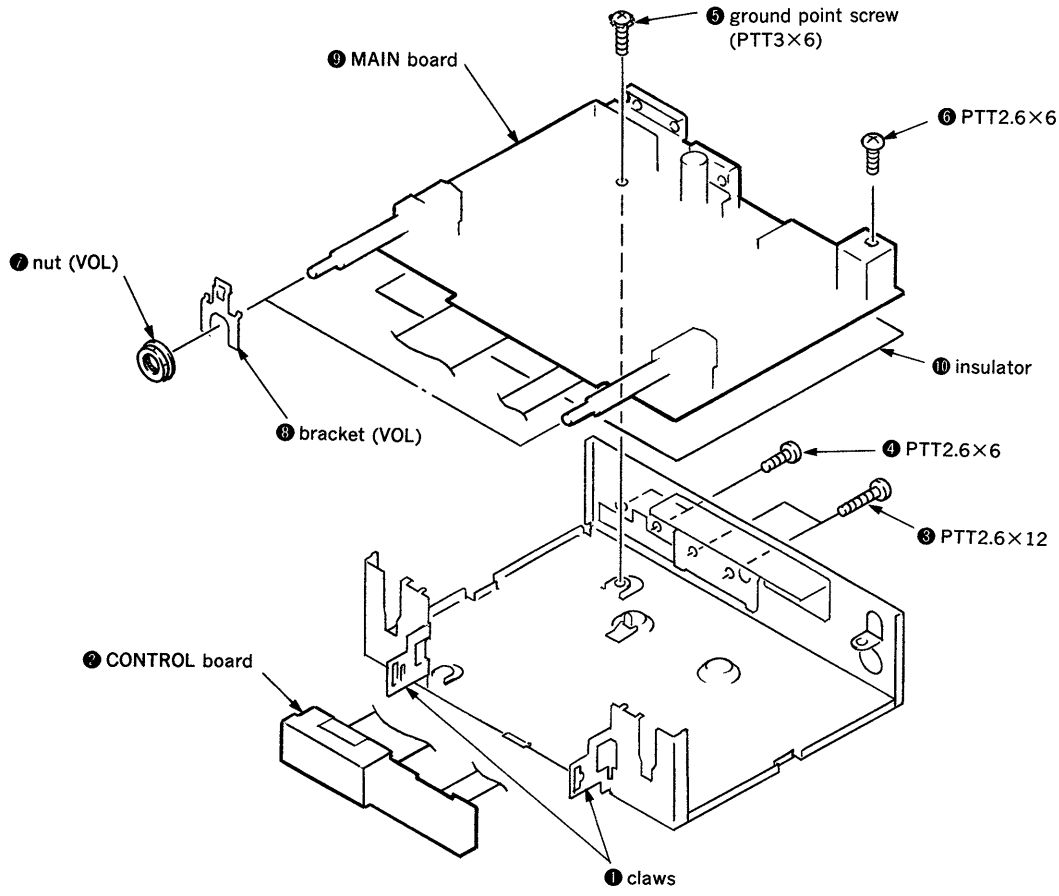
2-2. FRONT PANEL ASSY



2-3. MD BLOCK



2-4. MAIN BOARD



SECTION 3
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Wipe the following components with an absorbent cotton cloth moistened with alcohol before adjustment:
   PB head — Pinch roller
   Idler — Rubber belt
   Capstan
2. Demagnetize the PB head using a head demagnetizer.
3. Be careful not to use a magnetized screwdriver.
4. After the adjustment is completed, lock the adjustment parts using screws.
5. Unless otherwise specified, make adjustments at the specified voltage (14.4V).

Torque Measurement

Mode	Torque Meter	Meter Reading
FWD	CQ-102C	25−55g•cm (0.35−0.76 oz•inch)
FWD Back Tension		1.5−4.0g•cm (0.02−0.05 oz•inch)
REV	CQ-102RC	25−55g•cm (0.35−0.76 oz•inch)
REV Back Tension		1.5−4.0g•cm (0.02−0.05 oz•inch)
FF, REV	CQ-201B	more than 50g•cm (more than 0.70oz•inch)

SECTION 4
ELECTRICAL ADJUSTMENTS

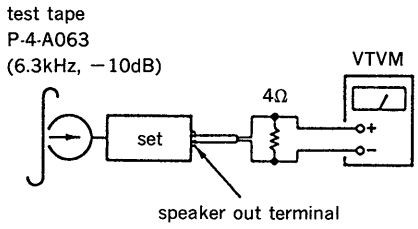
See the adjustment location from on page 14 and 15 for the adjustment.

DECK SECTION **0dB=0.775V**

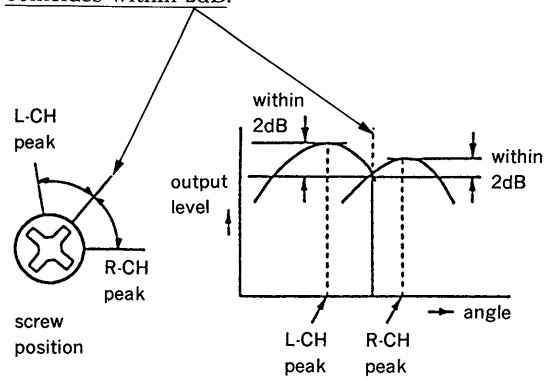
PB Head Azimuth Adjustment

Procedure:

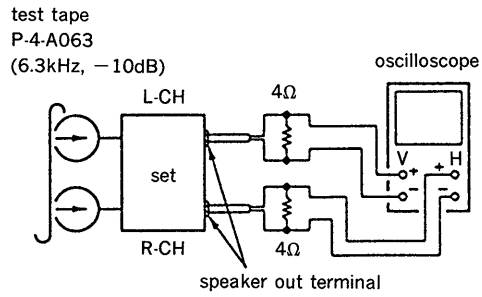
1. Put the set into the FWD PB mode.

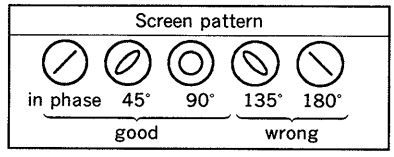


2. Turn the screw and check the output peak value. Adjust the screw so that the peak value in channels L and R coincides within 2dB.



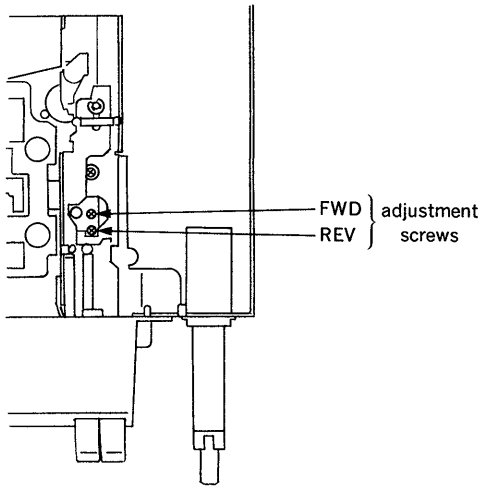
3. Check the phase in the PB mode.





4. Repeat the above adjustment for the REV PB mode.

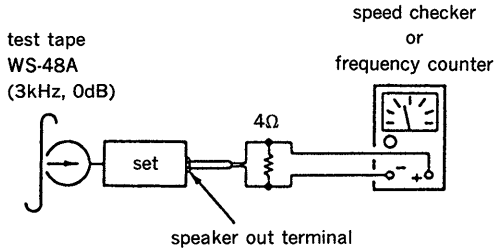
Adjustment Location: PB head



Tape Speed Adjustment

Procedure :

1. Put the set into the FWD PB mode.

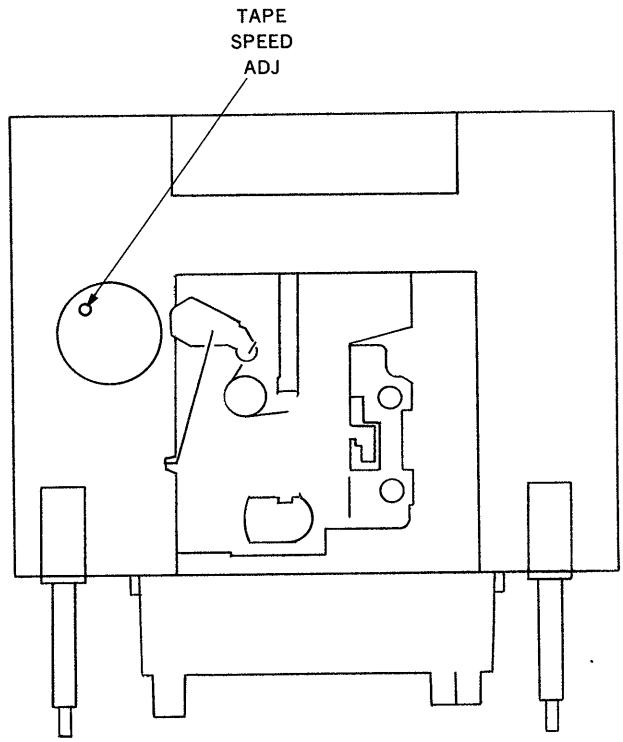


Specification : Constant speed

Speed checker	Frequency counter
−1.5 to +2.5%	2,955 to 3,075Hz

Adjustment Location :

—SET UPPER VIEW—



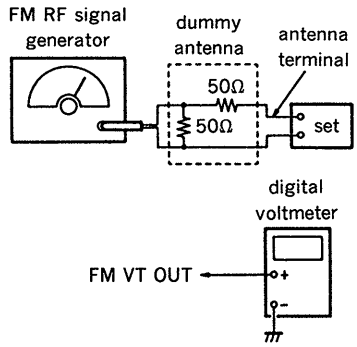
TUNER SECTION | 0dB=1μV

Cautions during repair
When the tuner unit is defective, replace it by a new one because its internal block is difficult to repair.

FM VT Voltage Adjustment

Setting :

FM/AM button : FM



Procedure :

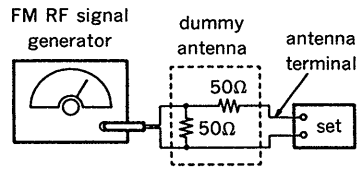
Adjust for the following value reading on digital voltmeter.		
Frequency Display	87.5MHz	107.9MHz
Reading on Digital voltmeter	1.42±0.05V	7.2±0.5V
Adjustment Part	L1	(confirmation)

Adjustment Location : See page 14 and 15.

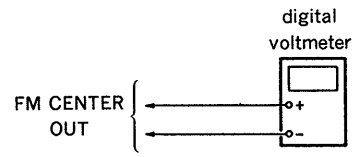
FM Center Adjustment

Setting :

FM/AM button : FM

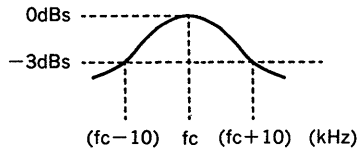


Carrier frequency : 98.1MHz
Output level : 60dB (1mV)
Mode : mono
Modulation : 1kHz, 75kHz deviation (100%)



Procedure :

1. Adjust T5 so that the reading on the digital voltmeter becomes in 0±20mV.
2. Output an Fcenter 60dB signal output from FM RF signal generator so that the speaker output terminal is 0dBs.
3. Change the FM RF signal generator frequency and check the deviation of the frequency on +side and −side when the speaker output terminal drops 3dB. (Both +side and −side is approx. 50kHz.)
4. Re-adjust L3 when the difference deviation of the frequency does more than 10kHz.

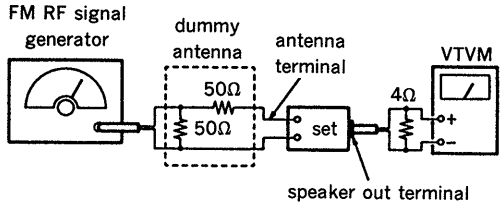


Adjustment Location : See page 14 and 15.

FM SENS/IF Adjustment

Setting

FM/AM button : FM



Procedure :

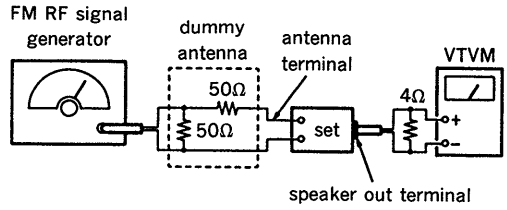
Adjust for a maximum reading on VTVM.
L2, L3, T1
87.5MHz

Adjustment Location : See page 14.

FM High Cut Control Adjustment

Setting :

FM/AM button : FM



Carrier frequency : 98.1MHz
Output level : 60dB (1mV)
Mode : mono
Modulation : 10kHz, 40kHz deviation

Procedure :

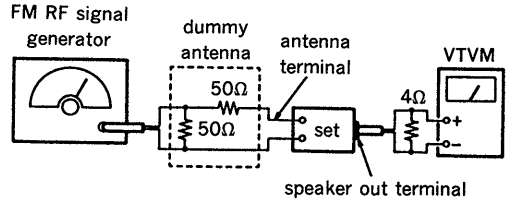
1. Tune the 98.1MHz.
2. The then output level is supposing that (A) dB.
3. Adjust with the volume RV3 so that the output level is (A) −6dB then signal generator input set to 20dB.

Adjustment Location : See page 14.

FM Stereo Separation Adjustment

Setting :

FM/AM button : FM



Carrier frequency : 98.1MHz
Output level : 70dB (3.2mV)
Mode : stereo
Modulation : 1kHz, 75kHz deviation (100%) (L-CH only)

Procedure :

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RV4 for minimum reading.

L-CH Stereo separation : Ⓐ−Ⓑ

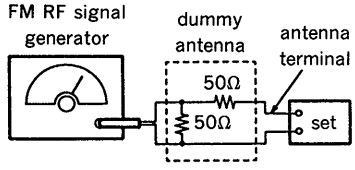
Specification : Separation more than 23dB

Adjustment Location : See page 14.

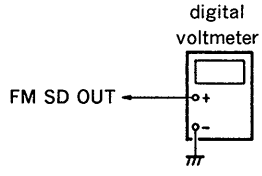
FM Auto Scan/Stop Level Adjustment

Setting :

FM/AM button : FM



Carrier frequency : 98.1MHz
Output level : 22dB (12.6μV)
Mode : mono
Modulation : 1kHz, 22.5kHz deviation (30%)



Procedure :

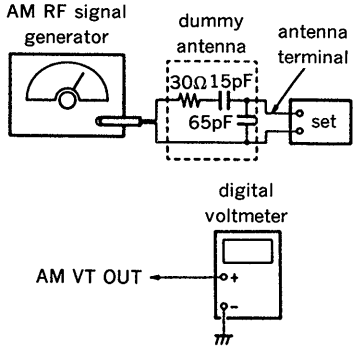
1. Adjust RV1 so that the reading on the digital voltmeter changes point from minimum to maximum. (approx. 0.6V)
2. Confirm that the set stops auto-scanning with FM RF signal generator output level set at 22±2dB.

Adjustment Location : See page 14 and 15.

AM VT Adjustment

Setting :

FM/AM button : AM



Procedure :

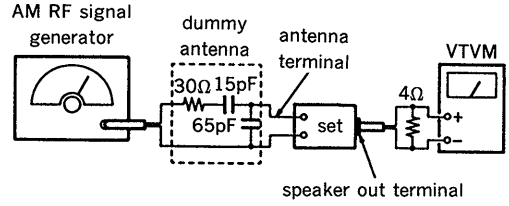
Adjust for the following value reading on digital voltmeter.		
Frequency Display	530kHz	1,710Hz
Reading on Digital voltmeter	1.42±0.05V	6.8±0.5V
Adjustment Part	T9	(confirmation)

Adjustment Location : See page 14 and 15.

AM IF Adjustment

Setting :

FM/AM buton : AM



Procedure :

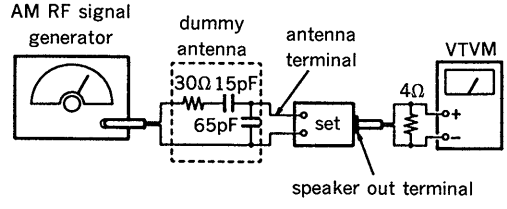
Adjust for a maximum reading on VTVM.
T8
450kHz

Adjustment Location : See page 14.

AM ANT Adjustment

Setting :

FM/AM button : AM



Procedure :

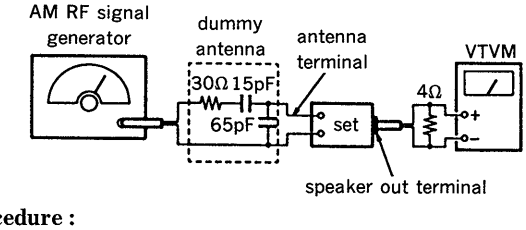
Adjust for a maximum reading on VTVM.
T6
600kHz

Adjustment Location : See page 14.

AM SENS Adjustment

Setting :

FM/AM button : AM



Procedure :

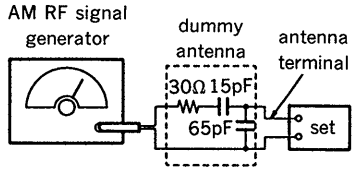
Adjust for a maximum reading on VTVM.	
T7	CV1
530kHz	1,710kHz

Adjustment Location : See page 14.

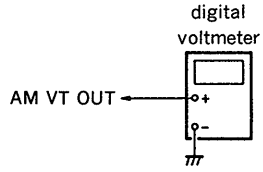
AM Auto Scan/Stop Level Adjustment

Setting :

FM/AM button : AM



Carrier frequency : 100kHz
30% amplitude modulation by 1kHz signal
Output level : 33dB (44.7μV)

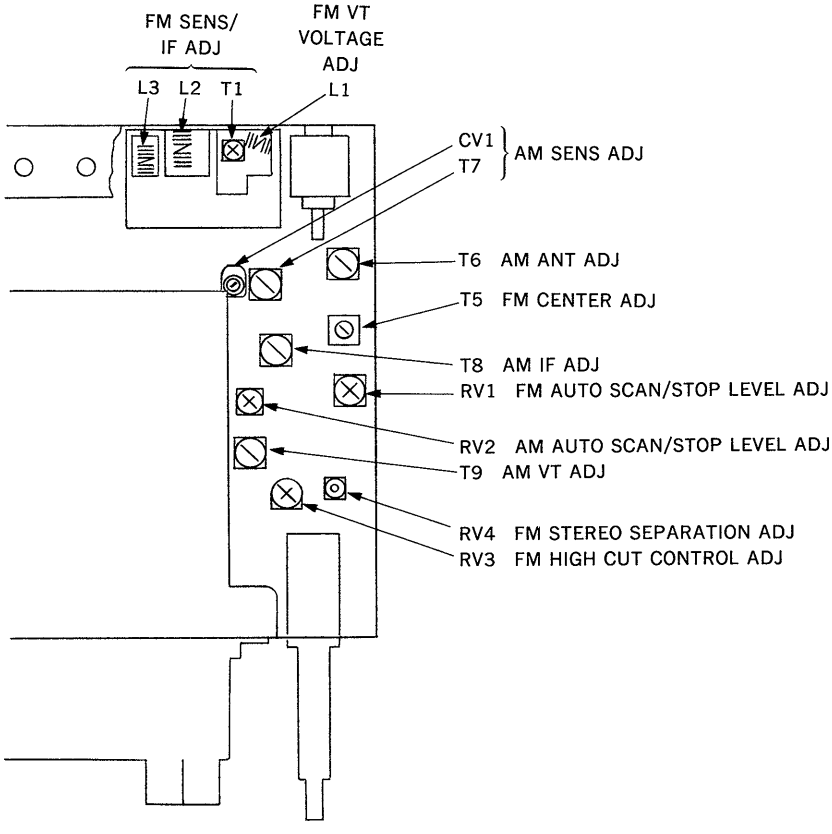


Procedure :

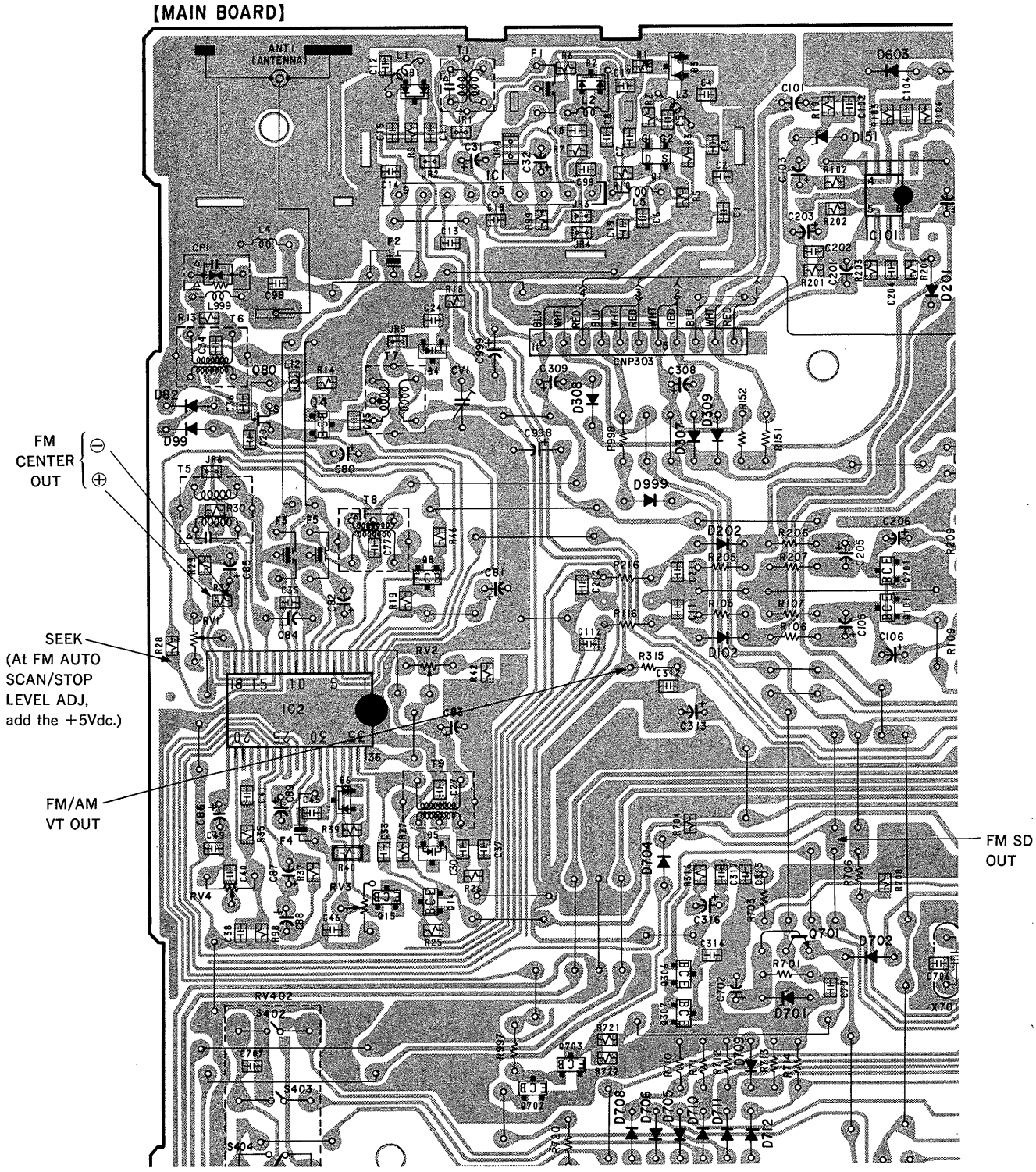
1. Adjust RV2 so that the reading on the digital voltmeter changes point from minimum to maximum. (approx. 0.6V)
2. Confirm that the set stops auto-scanning with AM RF signal generator output level set at 33±2dB.

Adjustment Location : See page 15.

—SET UPPER VIEW—



Measurement Point Location : main board—conductor side—



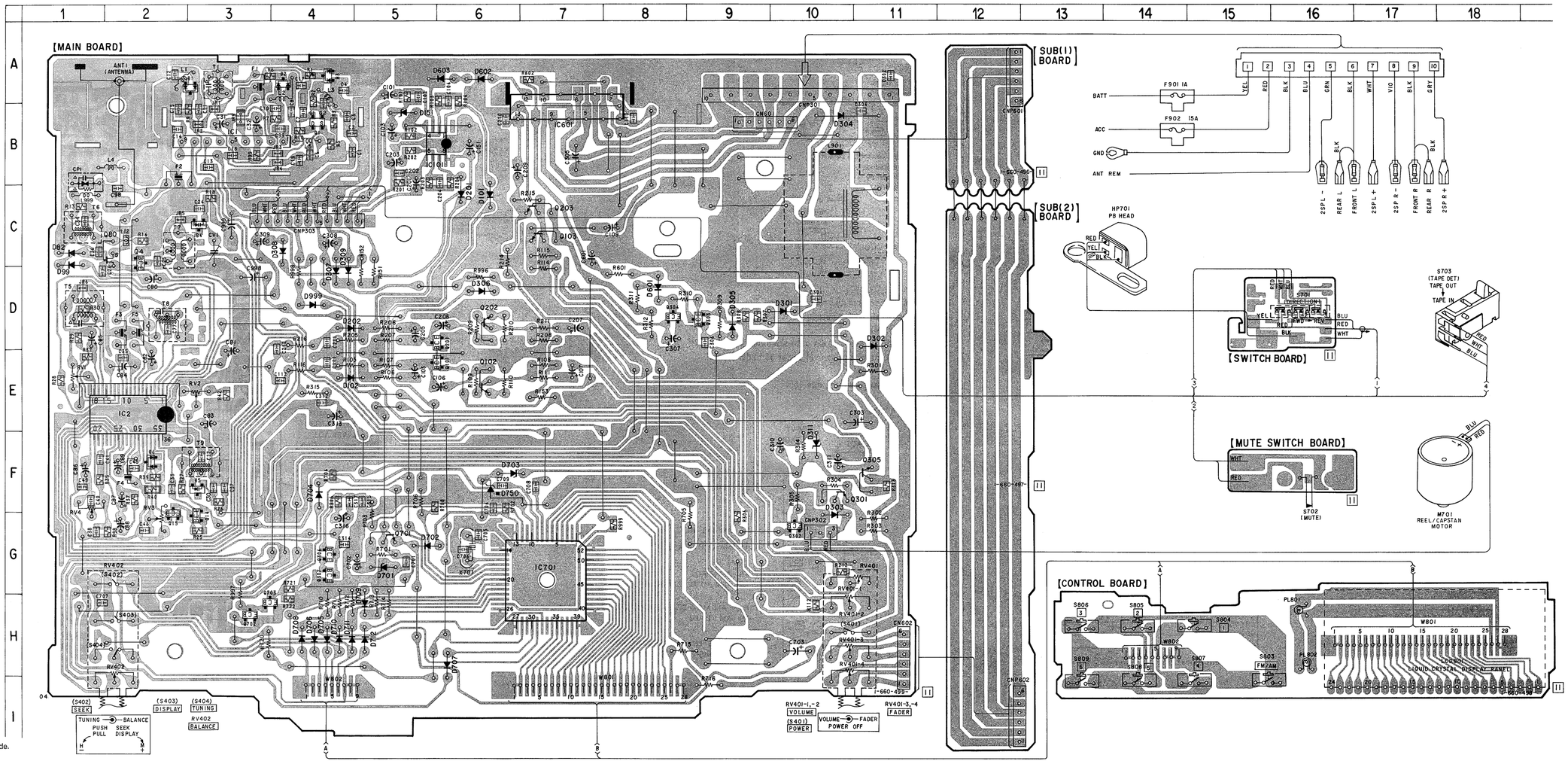
SECTION 5
DIAGRAMS

5-1. PRINTED WIRING BOARDS

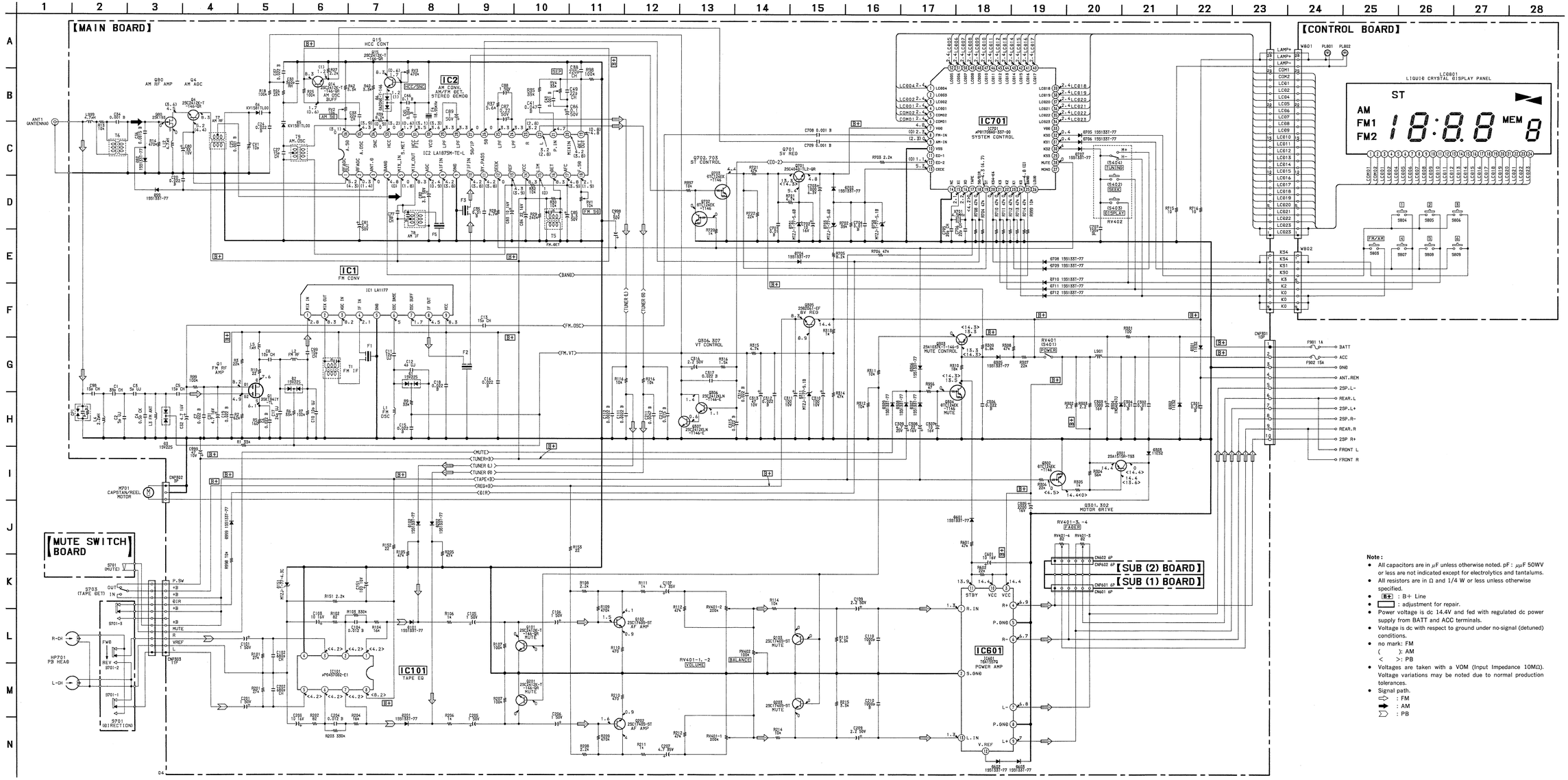
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D1	A-3	D709	H-5
D2	A-4	D710	H-4
D3	A-4	D711	H-4
D4	C-3	D712	H-5
D5	F-3	D750	F-6
D6	F-2	D999	D-4
D82	C-1		
D99	C-1	IC1	B-3
D101	C-6	IC2	E-2
D102	E-4	IC101	B-5
D151	B-5	IC601	B-7
D201	C-6	IC701	G-7
D202	D-4		
D301	D-10	Q1	B-4
D302	D-11	Q4	C-2
D303	G-10	Q14	G-3
D304	B-10	Q15	G-2
D305	D-9	Q80	C-2
D306	D-6	Q101	E-5
D307	D-4	Q102	E-6
D308	C-4	Q103	C-7
D309	D-4	Q201	D-5
D311	F-10	Q202	D-6
D601	D-8	Q203	C-7
D602	A-6	Q301	F-10
D603	A-6	Q302	G-10
D701	G-5	Q303	D-9
D702	G-5	Q304	D-8
D703	F-6	Q305	F-11
D704	F-4	Q306	G-4
D705	H-4	Q307	G-4
D706	H-4	Q701	G-5
D707	H-6	Q702	H-3
D708	H-4	Q703	H-3

Note :
- ○— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.



5-2. SCHEMATIC DIAGRAM • Refer to page 23 for IC Block Diagrams.

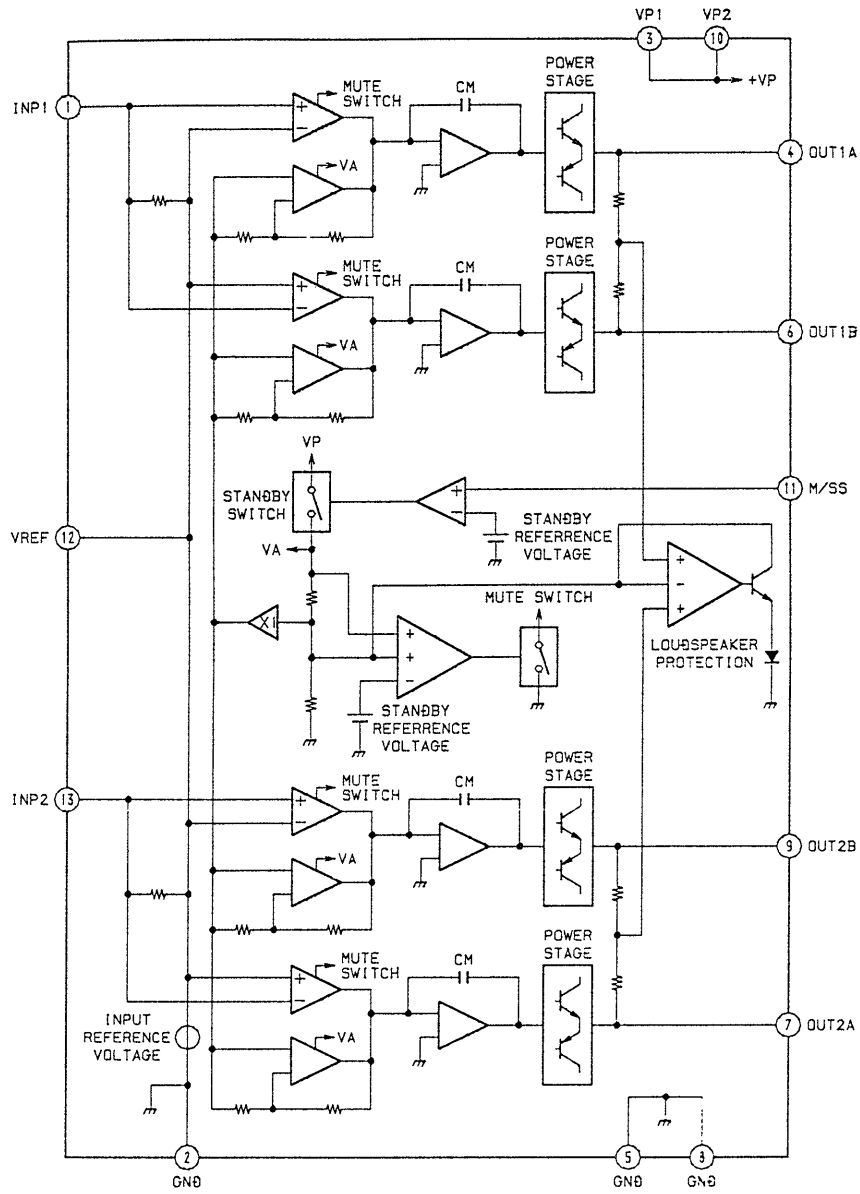


Note :

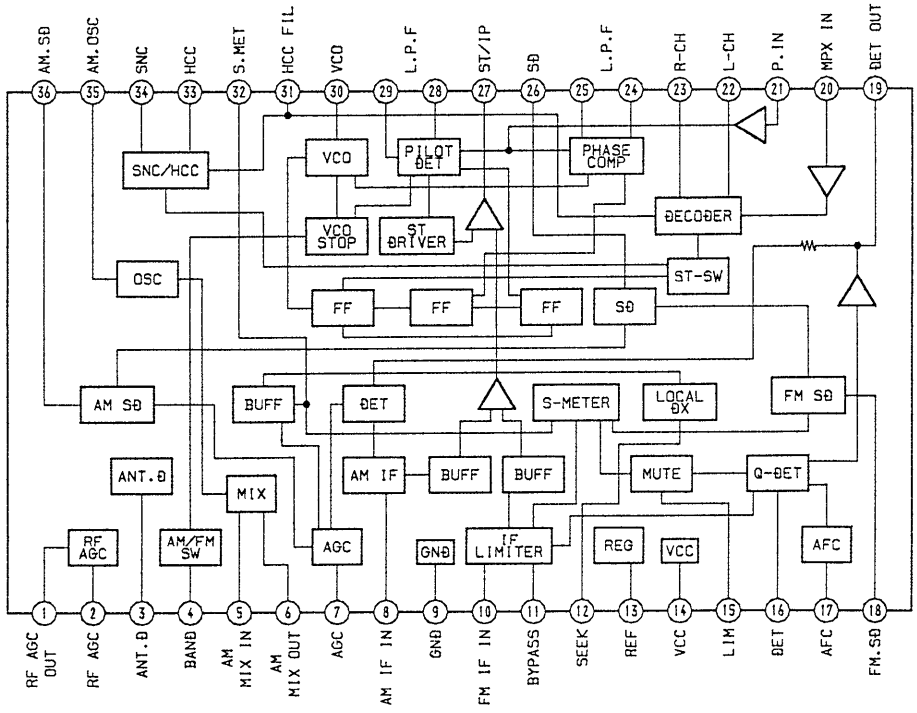
- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- B+ : B+ Line
- : adjustment for repair.
- Power voltage is dc 14.4V and fed with regulated dc power supply from BATT and ACC terminals.
- Voltage is dc with respect to ground under no-signal (detuned) conditions.
- no mark: FM
  ( ): AM
  < >: PB
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
  ➡ : AM
  ⇦ : PB

• **IC Block Diagrams**

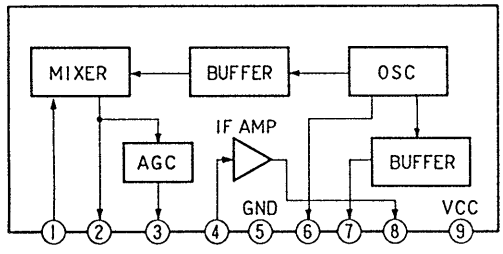
IC601 TDA1557Q



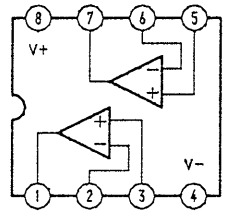
IC2 LA1875M



IC1 LA1177



IC101 μPD4570G2

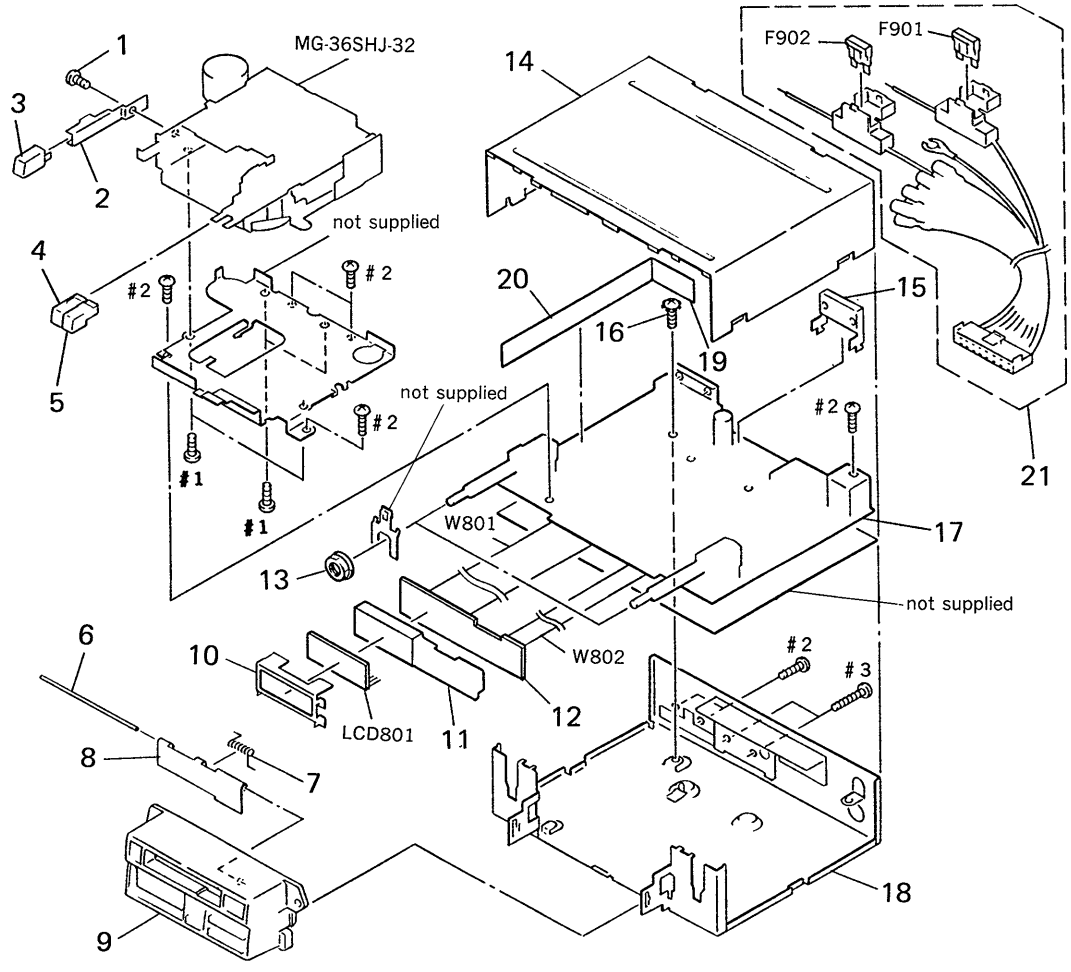


SECTION 6
EXPLODED VIEWS

NOTE:

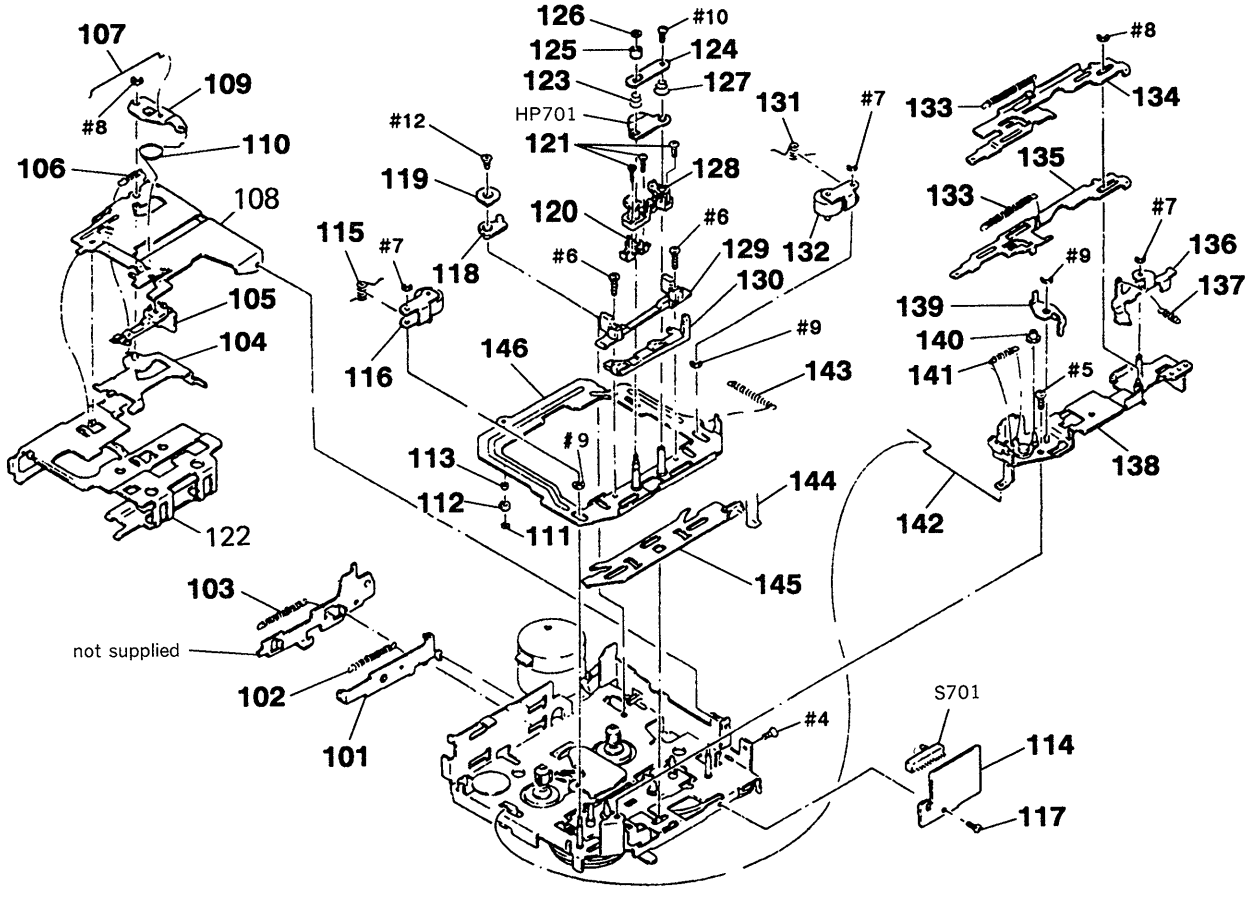
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE)... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

6-1. CHASSIS SECTION



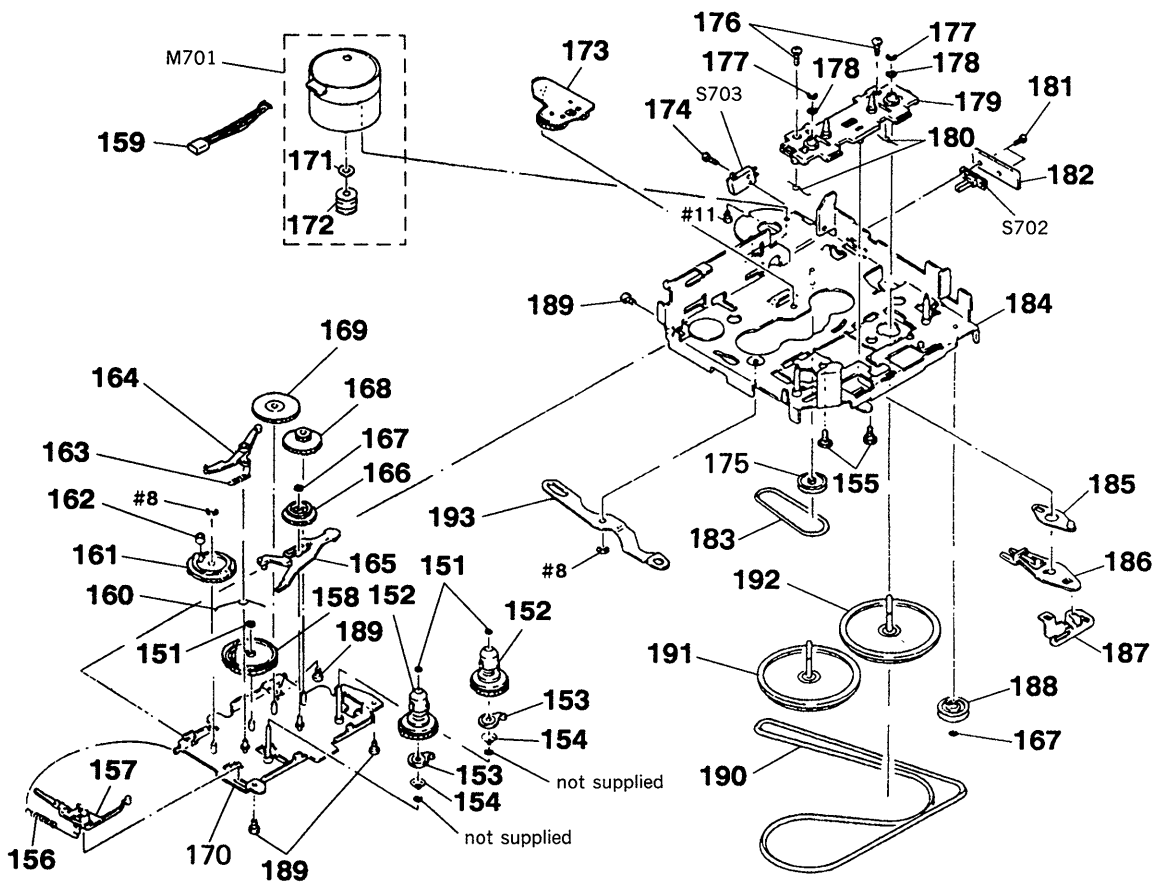
Ref. No.	Part No.	Description	Remark
1	3-372-033-11	SCREW (2.6X3), +P	
2	3-392-429-01	LEVER (EJECT)	
3	3-373-631-01	BUTTON (EJECT)	
4	3-373-632-01	BUTTON (REW)	
5	3-373-633-01	BUTTON (FF)	
6	3-332-130-01	SHAFT, C DOOR	
7	3-559-944-00	SPRING	
8	3-912-312-61	DOOR, CASSETTE	
9	X-3366-098-1	PANEL SUB ASSY, FRONT	
* 10	3-911-290-01	BRACKET (LCD)	
* 11	3-935-089-01	PLATE, LIGHT GUIDE	
* 12	1-660-498-11	CONTROL BOARD	
13	3-575-039-02	NUT (VOL)	
14	3-373-620-01	COVER	
* 15	3-920-499-01	BRACKET, IC	
16	3-344-501-01	SCREW (+PTT 3X6), GROUND POINT	
* 17	A-3294-031-A	MAIN BOARD, COMPLETE	
* 18	X-3371-532-1	CHASSIS ASSY	
* 19	1-660-496-11	SUB (1) BOARD	
* 20	1-660-497-11	SUB (2) BOARD	
21	1-751-069-31	CORD (WITH CONNECTOR)	
F901	1-532-798-11	FUSE (BLADE TYPE) (AUTO FUSE) 1A	
F902	1-533-331-11	FUSE (BLADE TYPE) (AUTO FUSE) 15A	
LCD801	1-809-532-61	DISPLAY PANEL, LIQUID CRYSTAL	
W801	1-751-021-21	CABLE, FLAT (28 CORE)	
W802	1-769-356-11	CABLE, FLAT 9P	

6-2. MECHANISM DECK SECTION 1 (MG-36SHJ-32)



Ref. No.	Part No.	Description	Remark
* 101	3-392-978-01	LEVER, EJECT	
102	3-392-950-01	SPRING	
103	3-392-951-01	SPRING	
* 104	3-392-921-01	LOCK ASSY, EJECT CAM	
105	3-392-972-01	HOOKER, TAPE	
106	3-392-953-01	SPRING	
107	3-392-969-01	LINK, RETURN	
108	3-375-383-01	HANGER (X), CASSETTE	
* 109	3-392-932-01	PLATE, CENTER	
110	3-392-961-01	SPRING (B)	
111	3-570-615-00	POLY-WASHER (DIA. 1.2)	
112	3-392-945-01	ROLLER (A), H.P	
113	3-392-942-01	ROLLER (B), H.P	
114	3-392-970-01	CHASSIS, SWITCH	
115	3-392-958-01	SPRING (R)	
116	3-375-378-01	ARM (R) ASSY, PINCH	
* 117	4-908-792-11	SCREW (B2)	
118	3-372-244-01	ARM (N), MUTE	
* 119	3-397-427-01	COLLAR, MUTE ARM	
120	3-377-908-01	SHIM (X), ADJUSTOR	
121	3-375-379-01	SCREW, AZIMUTH	
122	3-375-384-01	HOLDER (X), CASSETTE	
123	3-392-956-01	SPRING (A)	
* 124	3-392-930-01	RETAINER, SPRING	
125	3-392-943-01	ROLLER, FF	
126	3-676-387-00	POLY-SLIDER (DIA. 1.6)	
127	3-392-955-01	SPRING (A)	
* 128	3-379-142-01	ARM (B), ADJUSTOR	
129	3-392-984-02	GUIDE, TAPE	
130	3-377-909-02	LINK (X), ADJUSTOR	
131	3-392-957-01	SPRING (F)	
132	3-375-377-01	ARM (F) ASSY, PINCH	
133	3-392-948-01	SPRING	
* 134	3-392-980-01	LEVER, FF	
* 135	3-392-981-01	LEVER, REW	
* 136	3-392-935-01	ARM, LOCK	
137	3-392-917-01	SPRING	
* 138	3-372-242-01	BRACKET ASSY (D), LEVER	
* 139	3-392-933-01	LEVER (B), CHANGE	
140	3-392-994-01	ROLLER, PROGRAM	
141	3-392-954-01	SPRING	
142	3-372-243-01	LINK (B), SELECTOR	
143	3-392-952-01	SPRING	
144	3-392-962-01	SPRING	
* 145	3-392-919-01	ARM ASSY, F, R SELECTION	
* 146	3-392-975-05	PLATE ASSY (S), HEAD	
HP701	1-543-717-11	HEAD, MAGNETIC (PLAYBACK)	
S701	1-692-502-11	SWITCH, SLIDE (DIRECTION)	

6-3. MECHANISM DECK SECTION 2 (MG-36SHJ-32)



Ref. No.	Part No.	Description	Remark
151	3-676-387-00	POLY-SLIDER (DIA. 1.6)	
152	3-376-196-01	SPINDLE ASSY (S), REEL	
153	3-375-380-01	CAM ASSY, DETECTION	
154	3-370-619-01	SPRING, BACK TENSION	
155	3-392-918-01	SCREW, EJECT HOOK	
156	3-392-959-01	SPRING	
157	3-392-985-02	RATCHET	
158	3-392-990-01	GEAR, DETECTION	
* 159	3-376-195-01	CONNECTOR ASSY (3P)	
160	3-392-960-01	SPRING	
161	3-392-987-01	GEAR, SELECTOR	
162	3-392-944-01	COLLAR (SELECTOR GEAR)	
163	3-375-131-01	SPRING, GEAR LOCK ARM	
164	3-392-989-02	ARM, GEAR LOCK	
165	3-392-986-01	ARM, SENSOR	
166	3-392-915-01	GEAR, IDLE	
167	3-570-615-00	POLY-WASHER (DIA. 1.2)	
168	3-392-936-01	GEAR (A)	
169	3-392-937-01	GEAR (B)	
* 170	3-392-976-01	BASE ASSY, REEL	
* 171	3-392-912-01	WASHER, MYLAR	
* 172	3-392-913-01	PULLEY, MOTOR	
173	3-392-916-01	ARM ASSY, TU GEAR	
174	3-318-203-11	SCREW (B1.7X6), TAPPING	

Ref. No.	Part No.	Description	Remark
175	3-392-938-01	GEAR, PULLY	
176	3-318-204-81	SCREW (M1.7X3), TAPPING	
177	3-590-768-00	RING (A), E	
178	3-701-437-11	POLY-SLIDER (A)	
* 179	3-375-381-01	BRACKET ASSY (X), CM	
180	3-392-963-01	SPRING (R)	
181	3-318-204-91	SCREW (M1.7X4), TAPPING	
182	3-375-376-01	MUTE (PWB)	
183	3-375-375-02	BELT (C), SUB	
* 184	3-392-974-01	CHASSIS ASSY, MAIN	
* 185	3-392-925-01	ARM (A) ASSY, F.R	
* 186	3-392-939-01	ARM, FF	
* 187	3-392-934-01	ARM (B), F.R	
188	3-392-941-01	PULLEY (A), IDLE	
* 189	4-908-792-11	SCREW (B2)	
190	3-392-967-01	BELT, MAIN	
191	3-392-995-02	FLYWHEEL ASSY (BR)	
192	3-392-926-02	FLYWHEEL ASSY (BF)	
* 193	3-392-979-01	LEVER, REVERSE	
M701	X-3364-496-1	MOTOR ASSY (REEL/CAPSTAN)	
S702	1-692-065-11	SWITCH, LEAF (MUTE)	
S703	1-554-790-21	SWITCH, POWER (TAPE DET)	

CONTROL **MAIN**

SECTION 7
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA ..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	1-660-498-11	CONTROL BOARD			
		**********			
		< LIQUID CRYSTAL DISPLAY >			
LCD801	1-809-532-61	DISPLAY PANEL, LIQUID CRYSTAL			
		< PILOT LAMP >			
PL801	1-517-536-11	LAMP, PILOT			
PL802	1-517-536-11	LAMP, PILOT			
		< SWITCH >			
S803	1-572-704-31	SWITCH, KEY BOARD (FM/AM)			
S804	1-572-704-31	SWITCH, KEY BOARD (1)			
S805	1-572-704-31	SWITCH, KEY BOARD (2)			
S806	1-572-704-31	SWITCH, KEY BOARD (3)			
S807	1-572-704-31	SWITCH, KEY BOARD (4)			
S808	1-572-704-31	SWITCH, KEY BOARD (5)			
S809	1-572-704-31	SWITCH, KEY BOARD (6)			
**********					
*	A-3294-031-A	MAIN BOARD, COMPLETE			
		**********			
*	3-920-499-01	BRACKET, IC			
		< JACK >			
ANT1	1-573-995-11	JACK (ANTENNA)			
		< CAPACITOR >			
C1	1-163-241-11	CERAMIC CHIP	39PF	5%	50V
C2	1-163-088-00	CERAMIC CHIP	5PF		50V
C3	1-163-088-00	CERAMIC CHIP	5PF		50V
C4	1-163-082-00	CERAMIC CHIP	0.5PF	0.25PF	50V
C5	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C6	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C7	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C8	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C10	1-162-199-31	CERAMIC	10PF	5%	50V
C11	1-162-508-21	CERAMIC CHIP	12PF	5%	50V
C12	1-163-087-00	CERAMIC CHIP	4PF		50V
C13	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C14	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C15	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C17	1-163-102-00	CERAMIC CHIP	24PF	5%	50V
C18-20	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C24	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C25	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C27	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C30	1-163-390-11	CERAMIC CHIP	360PF	5%	50V
C31	1-126-288-11	ELECT	4.7uF	20%	25V
C32	1-126-288-11	ELECT	4.7uF	20%	25V
C33	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C34	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C35	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C36	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C37	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C38	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C40	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C41	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C45	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C46	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C49	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C77	1-163-092-00	CERAMIC CHIP	9PF	0.25PF	50V
C80	1-124-229-00	ELECT	33uF	20%	10V
C81	1-124-257-00	ELECT	2.2uF	20%	50V
C82	1-126-162-11	ELECT	3.3uF	20%	50V
C83	1-126-157-11	ELECT	10uF	20%	16V
C84	1-124-234-00	ELECT	22uF	20%	16V
C85	1-126-162-11	ELECT	3.3uF	20%	50V
C86	1-124-463-00	ELECT	0.1uF	20%	50V
C87	1-124-464-11	ELECT	0.22uF	20%	50V
C88	1-126-301-11	ELECT	1uF	20%	50V
C89	1-126-301-11	ELECT	1uF	20%	50V
C98	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C99	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C101	1-126-301-11	ELECT	1uF	20%	50V
C102	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C103	1-126-157-11	ELECT	10uF	20%	16V

Ref. No.	Part No.	Description			Remark
C104	1-163-022-00	CERAMIC CHIP	0.012uF	10%	50V
C105	1-126-160-11	ELECT	1uF	20%	50V
C106	1-126-160-11	ELECT	1uF	20%	50V
C107	1-126-163-11	ELECT	4.7uF	20%	50V
C109	1-124-257-00	ELECT	2.2uF	20%	50V
C110	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C111	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C112	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V
C151	1-126-177-11	ELECT	100uF	20%	10V
C201	1-126-301-11	ELECT	1uF	20%	50V
C202	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C203	1-126-157-11	ELECT	10uF	20%	16V
C204	1-163-022-00	CERAMIC CHIP	0.012uF	10%	50V
C205	1-126-160-11	ELECT	1uF	20%	50V
C206	1-126-160-11	ELECT	1uF	20%	50V
C207	1-126-163-11	ELECT	4.7uF	20%	50V
C209	1-124-257-00	ELECT	2.2uF	20%	50V
C210	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C211	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C212	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V
C301	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C302	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C303	1-126-924-61	ELECT	1000uF	20%	16V
C304	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C305	1-124-556-11	ELECT	2200uF	20%	16V
C306	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C307	1-126-157-11	ELECT	10uF	20%	16V
C308	1-124-234-00	ELECT	22uF	20%	16V
C309	1-126-163-11	ELECT	4.7uF	20%	50V
C310	1-126-177-11	ELECT	100uF	20%	10V
C311	1-126-177-11	ELECT	100uF	20%	10V
C312	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C313	1-124-589-11	ELECT	47uF	20%	16V
C314	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C315	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C316	1-124-257-00	ELECT	2.2uF	20%	50V
C317	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C601	1-126-157-11	ELECT	10uF	20%	16V
C701	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C702	1-126-157-11	ELECT	10uF	20%	16V
C703	1-126-916-11	ELECT	1000uF	20%	6.3V
C704	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C705	1-163-234-11	CERAMIC CHIP	20PF	5%	50V
C706	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C707	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C708	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C709	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C998	1-124-257-00	ELECT	2.2uF	20%	50V
C999	1-104-664-11	ELECT	47uF	20%	25V

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
CN601	1-770-085-11	CONNECTOR, BOARD TO BOARD 6P	
CN602	1-770-085-11	CONNECTOR, BOARD TO BOARD 6P	
CNP301	1-566-314-21	PIN, CONNECTOR 10P	
* CNP302	1-506-985-11	PIN, CONNECTOR (PC BOARD) 3P	
* CNP303	1-506-993-11	PIN, CONNECTOR (PC BOARD) 11P	
		< DISCHARGE GAP >	
CP1	1-519-504-11	GAP, DISCHARGE	
		< VARIABLE CAPACITOR >	
CV1	1-141-410-11	CAP, ADJ 10PF	
		< DIODE >	
D1	8-719-042-68	DIODE 1SV225-T7SONY	
D2	8-719-042-68	DIODE 1SV225-T7SONY	
D3	8-719-042-68	DIODE 1SV225-T7SONY	
D4	8-719-045-74	DIODE KV1581TL00	
D5	8-719-045-74	DIODE KV1581TL00	
D6	8-719-914-42	DIODE DA204K-T-146	
D82	8-719-991-33	DIODE 1SS133T-77	
D99	8-719-991-33	DIODE 1SS133T-77	
D101	8-719-991-33	DIODE 1SS133T-77	
D102	8-719-991-33	DIODE 1SS133T-77	
D151	8-719-983-20	DIODE MTZJ-T-77-4.3C	
D201	8-719-991-33	DIODE 1SS133T-77	
D202	8-719-991-33	DIODE 1SS133T-77	
D301	8-719-200-82	DIODE 11ES2	
D302	8-719-200-82	DIODE 11ES2	
D303	8-719-200-82	DIODE 11ES2	
D304	8-719-049-38	DIODE 1N5404TU	
D305	8-719-991-33	DIODE 1SS133T-77	
D306	8-719-991-33	DIODE 1SS133T-77	
D307	8-719-991-33	DIODE 1SS133T-77	
D308	8-719-991-33	DIODE 1SS133T-77	
D309	8-719-991-33	DIODE 1SS133T-77	
D311	8-719-110-13	DIODE RD9.1ESB2	
D601	8-719-991-33	DIODE 1SS133T-77	
D602	8-719-991-33	DIODE 1SS133T-77	
D603	8-719-991-33	DIODE 1SS133T-77	
D701	8-719-109-89	DIODE RD5.6ESB2	
D702	8-719-991-33	DIODE 1SS133T-77	
D703	8-719-109-89	DIODE RD5.6ESB2	
D704	8-719-991-33	DIODE 1SS133T-77	
D705	8-719-991-33	DIODE 1SS133T-77	
D706	8-719-991-33	DIODE 1SS133T-77	
D707	8-719-991-33	DIODE 1SS133T-77	
D708	8-719-991-33	DIODE 1SS133T-77	

MAIN

Ref. No.	Part No.	Description	Remark
D709	8-719-991-33	DIODE 1SS133T-77	
D710	8-719-991-33	DIODE 1SS133T-77	
D711	8-719-991-33	DIODE 1SS133T-77	
D712	8-719-991-33	DIODE 1SS133T-77	
D750	8-719-109-85	DIODE RD5.1ESB2	
D999	8-719-991-33	DIODE 1SS133T-77	
		< FILTER >	
F1-3			
	1-767-021-21	FILTER, CERAMIC	
F4	1-567-250-11	OSCILLATOR, CERAMIC (18.95kHz)	
F5	1-767-047-11	FILTER, CERAMIC	
		< FUSE >	
F901	1-532-798-11	FUSE (BLADE TYPE) (AUTO FUSE) 1A	
F902	1-533-331-11	FUSE (BLADE TYPE) (AUTO FUSE) 15A	
		< IC >	
IC1	8-759-821-27	IC LA1177	
IC2	8-759-265-93	IC LA1875M-TE-L	
IC101	8-759-106-02	IC uPC4570G2	
IC601	8-759-295-28	IC TDA1557Q	
IC701	8-759-163-44	IC uPD1708AG-337-00	
		< JUMPER RESISTOR >	
JR1-6			
	1-216-295-00	CONDUCTOR, CHIP (2012)	
JR9	1-216-296-00	CONDUCTOR, CHIP (3216)	
		< COIL >	
L1	1-409-632-11	COIL, AIR-CORE (FM OSC)	
L2	1-409-633-11	COIL, AIR-CORE (FM RF)	
L3	1-409-634-11	COIL, AIR-CORE (FM ANT)	
L4	1-414-146-31	INDUCTOR 2.2uH	
L5	1-414-142-11	INDUCTOR 1uH	
L12	1-412-002-31	INDUCTOR CHIP 4.7uH	
L901	1-411-823-31	COIL, CHOKE	
L999	1-410-324-11	MICRO INDUCTOR 4.7uH	
		< TRANSISTOR >	
Q1	8-729-321-70	TRANSISTOR 3SK194IY	
Q4	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q14	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q15	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q80	8-729-119-35	TRANSISTOR 2SK193-K	
Q101	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q102	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q103	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q201	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q202	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q203	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q301	8-729-111-52	TRANSISTOR 2SB984-K	
Q302	8-729-901-00	TRANSISTOR DTC124EK	
Q303	8-729-216-22	TRANSISTOR 2SA1162-G	
Q304	8-729-901-00	TRANSISTOR DTC124EK	
Q305	8-729-209-15	TRANSISTOR 2SD2012	
Q306	8-729-016-79	TRANSISTOR 2SC2412KLN-T146-E	
Q307	8-729-016-79	TRANSISTOR 2SC2412KLN-T146-E	
Q701	8-729-967-32	TRANSISTOR 2SC2673-Q	
Q702	8-729-901-00	TRANSISTOR DTC124EK	
Q703	8-729-901-00	TRANSISTOR DTC124EK	
		< RESISTOR >	
R1	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R2	1-216-092-00	METAL GLAZE 62K 5% 1/10W	
R3	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R5	1-216-030-00	METAL CHIP 160 5% 1/10W	
R6	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R7	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R9	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R10	1-216-009-00	METAL CHIP 22 5% 1/10W	
R13	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R14	1-216-113-00	METAL CHIP 470K 5% 1/10W	
R18	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R25	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R26	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R27	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R28	1-247-847-11	CARBON 4.7K 5% 1/4W	
R29	1-216-106-00	METAL CHIP 240K 5% 1/10W	
R30	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R32	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R35	1-216-689-11	METAL CHIP 39K 0.5% 1/10W	
R37	1-216-067-00	METAL CHIP 5.6K 5% 1/10W	
R39	1-216-071-00	METAL CHIP 8.2K 5% 1/10W	
R40	1-216-210-00	METAL GLAZE 3.3K 5% 1/8W	
R42	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R98	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R99	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R101	1-216-083-00	METAL CHIP 27K 5% 1/10W	
R102	1-216-023-00	METAL CHIP 82 5% 1/10W	
R103	1-216-109-00	METAL CHIP 330K 5% 1/10W	
R104	1-216-078-00	METAL CHIP 16K 5% 1/10W	
R105	1-249-437-11	CARBON 47K 5% 1/4W	
R106	1-249-417-11	CARBON 1K 5% 1/4W	
R107	1-249-441-11	CARBON 100K 5% 1/4W	
R108	1-249-421-11	CARBON 2.2K 5% 1/4W	
R109	1-247-895-00	CARBON 470K 5% 1/4W	
R110	1-249-413-11	CARBON 470 5% 1/4W	

Ref. No.	Part No.	Description			Remark
R111	1-249-417-11	CARBON	1K	5%	1/4W
R112	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R114	1-249-429-11	CARBON	10K	5%	1/4W
R115	1-249-423-11	CARBON	3.3K	5%	1/4W
R116	1-249-429-11	CARBON	10K	5%	1/4W
R151	1-249-421-11	CARBON	2.2K	5%	1/4W
R152	1-247-791-00	CARBON	22	5%	1/4W
R153	1-247-791-00	CARBON	22	5%	1/4W
R201	1-216-083-00	METAL CHIP	27K	5%	1/10W
R202	1-216-023-00	METAL CHIP	82	5%	1/10W
R203	1-216-109-00	METAL CHIP	330K	5%	1/10W
R204	1-216-078-00	METAL CHIP	16K	5%	1/10W
R205	1-249-437-11	CARBON	47K	5%	1/4W
R206	1-249-417-11	CARBON	1K	5%	1/4W
R207	1-249-441-11	CARBON	100K	5%	1/4W
R208	1-249-421-11	CARBON	2.2K	5%	1/4W
R209	1-247-895-00	CARBON	470K	5%	1/4W
R210	1-249-413-11	CARBON	470	5%	1/4W
R211	1-249-417-11	CARBON	1K	5%	1/4W
R212	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R214	1-249-429-11	CARBON	10K	5%	1/4W
R215	1-249-423-11	CARBON	3.3K	5%	1/4W
R216	1-249-429-11	CARBON	10K	5%	1/4W
R301	1-247-807-00	CARBON	100	5%	1/4W
R302	1-249-385-11	CARBON	2.2	5%	1/6W
R303	1-249-385-11	CARBON	2.2	5%	1/6W
R304	1-249-438-11	CARBON	56K	5%	1/4W
R305	1-249-417-11	CARBON	1K	5%	1/4W
R306	1-216-081-11	METAL CHIP	22K	5%	1/10W
R307	1-216-081-11	METAL CHIP	22K	5%	1/10W
R308	1-216-089-00	METAL CHIP	47K	5%	1/10W
R309	1-249-427-11	CARBON	6.8K	5%	1/4W
R310	1-249-432-11	CARBON	18K	5%	1/4W
R311	1-249-429-11	CARBON	10K	5%	1/4W
R312	1-249-429-11	CARBON	10K	5%	1/4W
R313	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R314	1-249-437-11	CARBON	47K	5%	1/4W
R315	1-249-425-11	CARBON	4.7K	5%	1/4W
R316	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R601	1-249-437-11	CARBON	47K	5%	1/4W
R602	1-216-081-00	METAL CHIP	22K	5%	1/10W
R701	1-249-425-11	CARBON	4.7K	5%	1/4W
R702	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R703	1-249-421-11	CARBON	2.2K	5%	1/4W
R704	1-216-089-00	METAL CHIP	47K	5%	1/10W
R705	1-249-428-11	CARBON	8.2K	5%	1/4W
R706	1-249-437-11	CARBON	47K	5%	1/4W
R708	1-216-089-00	METAL GLAZE	47K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R710-714					
	1-249-437-11	CARBON	47K	5%	1/4W
R715	1-249-393-11	CARBON	10	5%	1/4W
R716	1-249-393-11	CARBON	10	5%	1/4W
R720	1-249-417-11	CARBON	1K	5%	1/4W
R721	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R722	1-216-081-00	METAL CHIP	22K	5%	1/10W
R996	1-249-401-11	CARBON	47	5%	1/4W
R997	1-249-429-11	CARBON	10K	5%	1/4W
R998	1-249-429-11	CARBON	10K	5%	1/4W
R999	1-216-073-00	METAL CHIP	10K	5%	1/10W

< VARIABLE RESISTOR >

RV1	1-225-231-21	RES, ADJ 10K
RV2	1-225-231-21	RES, ADJ 10K
RV3	1-225-283-21	RES, ADJ VAR 470K
RV4	1-225-282-21	RES, ADJ VAR 33K
RV401	1-225-204-11	RES, VAR (WITH SWITCH) (VOLUME/FADER, POWER)
RV402	1-241-680-11	RES, VAR, CARBON 100K (SW) (BALANCE, SEEK/DISPLAY/TUNING)

< TRANSFORMER >

T1	1-406-791-11	TRANSFORMER, IF

< COIL >

T5	1-411-748-11	COIL (FM DET)
T6	1-411-745-11	COIL (AM ANT)
T7	1-411-746-11	COIL (AM RF)
T8	1-411-744-11	COIL (AM IF)
T9	1-411-747-11	COIL (AM OSC)

< FLAT CABLE >

W801	1-751-021-21	CABLE, FLAT (28 CORE)
W802	1-769-356-11	CABLE, FLAT 9P

< VIBRATOR >

X701	1-760-223-11	VIBRATOR, CRYSTAL (4.5MHz)

****

* 1-660-496-11 SUB (1) BOARD
****

****

* 1-660-497-11 SUB (2) BOARD
****

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Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
21	1-751-069-31	CORD (WITH CONNECTOR)	
203	1-751-069-31	CORD (WITH CONNECTOR)	
F901	1-532-798-11	FUSE (BLADE TYPE) (AUTO FUSE) 1A	
F902	1-533-331-11	FUSE (BLADE TYPE) (AUTO FUSE) 15A	
HP701	1-543-717-11	HEAD, MAGNETIC (PLAYBACK)	
M701	X-3364-496-1	MOTOR ASSY (REEL/CAPSTAN)	
S701	1-692-502-11	SWITCH, SLIDE (DIRECTION)	
S702	1-692-065-11	SWITCH, LEAF (MUTE)	
S703	1-554-790-21	SWITCH, POWER (TAPE DET)	

****

ACCESSORIES & PACKING MATERIALS

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3-810-603-11 MANUAL, INSTRUCTION (ENGLISH, FRENCH)
3-810-603-21 MANUAL, INSTRUCTION (FRENCH) (Canadian)
3-810-604-11 MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH)

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HARDWARE LIST

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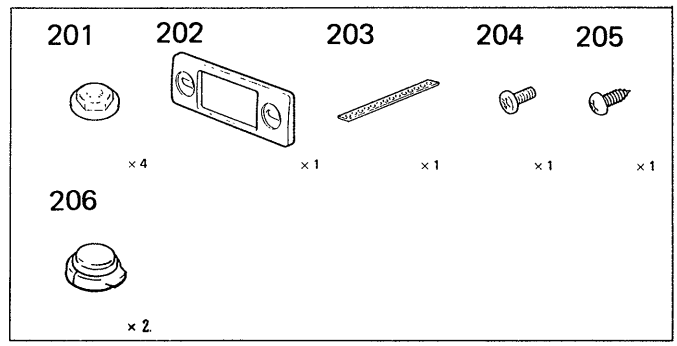
#1	7-621-770-87	SCREW +PTT 2.6X5 (S)
#2	7-621-770-67	SCREW +PTT 2.6X6 (S)
#3	7-621-775-68	SCREW +PTT 2.6X12 (S)
#4	7-621-555-10	SCREW +K 2X3
#5	7-621-255-25	SCREW +PTT 2X4 (S)
#6	7-627-553-88	SCREW, PRECISION +P 2X7
#7	7-624-102-04	STOP RING 1.5, TYPE -E
#8	7-624-104-04	STOP RING 2.0, TYPE -E
#9	7-624-118-01	RING, RETAINING E-2.5
#10	7-627-553-48	SCREW, PRECISION +P 2X4
#11	7-621-255-15	SCREW +P 2X3
#12	7-621-591-00	SCREW +K 2X4

****

Ref. No.	Part No.	Description	Remark
		MOUNTING HARDWARE	
		**********	
201	3-575-039-02	NUT (VOL)	
202	3-383-094-31	PLATE, TRIM	
203	3-916-012-01	BRACKET (ND), FITTING ASSIST	
204	3-915-917-01	SCREW (4X12), +T	
205	7-682-560-04	SCREW +P 4X6	
206	X-3364-774-1	KNOB (B) ASSY	



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